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| UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b)) | Attorney Docket No. | C99-006 |
| | First Inventor or Application Identifier | Gopalakrishnan et al. |
| | Title | METHODS AND APPARATUSES FOR DETERMINING THE ORIENTATION OF AN OBJECT IN AN IMAGE |
| | Express Mail Label No. | EL 641 629 358 US |

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| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231 |
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing) | 6. <input type="checkbox"/> Microfiche Computer Program (Appendix) |
| 2. <input checked="" type="checkbox"/> Specification [Total Pages 36] (preferred arrangement set forth below) <ul style="list-style-type: none">- Descriptive title of the Invention- Cross References to Related Applications- Statement Regarding Fed sponsored R&D- Reference to Microfiche Appendix- Background of the Invention- Brief Summary of the Invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure | 7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable) <ul style="list-style-type: none">a. <input type="checkbox"/> Computer Readable Copyb. <input type="checkbox"/> Paper Copy (identical to computer copy)c. <input type="checkbox"/> Statement verifying identity of above copies |
| 3. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total Sheets 15] | ACCOMPANYING APPLICATION PARTS |
| 4. Oath or Declaration [Total Pages] <ul style="list-style-type: none">a. <input type="checkbox"/> Newly executed (original or copy)b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below]i. <input type="checkbox"/> Deletion of Inventor(s) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). | 8. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) |
| 5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein. | 9. <input type="checkbox"/> 37 CFR 3.73(b) Statement (where there is an assignee) <input type="checkbox"/> Power of Attorney |
| | 10. <input type="checkbox"/> English Translation Document (if applicable) |
| | 11. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations |
| | 12. <input type="checkbox"/> Preliminary Amendment |
| | 13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) |
| | 14. <input type="checkbox"/> Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired. |
| | 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) |
| | 16. <input type="checkbox"/> Other: _____ |

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|---|
| 17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-In-Part (CIP) of prior application No.: |
|---|

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| 18. CORRESPONDENCE ADDRESS |
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| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | 23459 (Insert Customer No. or Attach bar code label here) | <input type="checkbox"/> or Correspondence address below | | | |
| NAME | Cognex Corporation | | | | |
| | Russ Weinzimmer | | | | |
| ADDRESS | One Vision Drive | | | | |
| CITY | Natick | STATE | MA | ZIP CODE | 01760 |
| COUNTRY | USA | TELEPHONE | 508-650-3154 | FAX | 508-650-3329 |

| | | | |
|-------------------|-----------------|-----------------------------------|-----------|
| NAME (Print/Type) | Tracy Calabresi | REGISTRATION NO. (Attorney/Agent) | 38,920 |
| SIGNATURE | Tracy Calabresi | DATE | 7/31/2000 |



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In re Application of: **Gopalakrishnan et al.**

For: **METHODS AND APPARATUSES FOR DETERMINING THE ORIENTATION OF AN OBJECT IN AN IMAGE**

Attorney Docket Number: **C99-006**

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

NEW APPLICATION TRANSMITTAL

Dear Sir:

Transmitted herewith for filing is the patent application of Venkat Gopalakrishnan, Albert Montillo, and Ivan Bachelder for **METHODS AND APPARATUSES FOR DETERMINING THE ORIENTATION OF AN OBJECT IN AN IMAGE**.

EXPRESS MAIL CERTIFICATE

Express Mail Label Number EL 641 629 358 US. Date of Deposit: 7/31/2000. I hereby certify that this correspondence and the below referenced papers are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above, and is addressed to the Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Tracy M. Colabrese
Tracy M. Colabrese

1. Papers Enclosed That Are Required for Filing Date under 37 CFR 1.53(b)

36 pages of specification (including pages of claims and page of abstract)
44 claims
15 sheets of drawings (informal)

2. Fee Calculation (37 CFR 1.16)

| Item | Citation | Calculation | Amount |
|------------------------------|----------|--|--------------------|
| Basic filing fee | 1.16(a) | | \$ 690.00 |
| Additional claim fees: | | | |
| Independent claims | 1.16(b) | (<u>4</u> indep. claims - 3) x 78.00 | \$ <u>78</u> .00 |
| Total claims in excess of 20 | 1.16(c) | (<u>44</u> total. claims - 20) x 18.00 | \$ <u>432</u> .00 |
| Multiple dependent claims | 1.16(d) | (0 mult. dep. claims) x 260.00 | \$ 0.00 |
| Filing Fee Calculation: | | | \$ <u>1200</u> .00 |

3. Method of Payment of Fees

Charge Account No. 03-2357 in the amount of \$ 1200 . A duplicate of this transmittal is attached.

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4. Authorization to Charge Additional Fees

The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16 and 1.17 which may be required during the entire pendency of this application, to Deposit Account No. **03-2357**.

5. Other papers enclosed

- a) Return Receipt Postcard

Respectfully Submitted,

Dated:

7/31/2000

Tracy M. Calabresi

Tracy M. Calabresi
Attorney for Applicants
7 Eldridge Road
Harvard, MA 01451
Phone: 978-456-8840

Registration No. 38,920

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